

ZAVITAYEV, R.A.; RYBAKOVA, N.T., redaktor; DZHATYEV, S.O., tekhnicheskii redaktor

[Observations and experiments in natural science for elementary schools; teacher's manual] Nabludeniia i opyty po estestvosnaniu v nachal'noi shkole; posobie dlia uchitel'ia. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 111 p.  
(Nature study) (MLRA 9:11)

VERZILIN, Nikolay Mikhaylovich; ZAVITAYEV, P.A.; KORSUNSKAYA, V.M.; PADALKO, N.V.; RYKOV, N.A.; SOKOLOV, N.L.; SHIBANOV, A.A.; YELAGIN, V.D., redaktor; GORNIK, V.P., tekhnicheskiy redaktor

[Working with pupils on school experimental plots] Methodika raboty s uchashchimisya na shkol'nom uchebno-opytном uchastke. Pod red. N.M. Verzilina. [Moskva] Izd-vo Akademii pedagog. nauk RSFSR, 1956. 685 p. (MIRA 9:11)

1. Leningradskiy nauchno-issledovatel'skiy institut pedagogiki Akademii pedagogicheskikh nauk (for Verzilin, Korsunskaya, Rykov, Sokolov) 2. Yestestvennonauchnyy institut im. P.F. Lesgafta Akademii pedagogicheskikh nauk (for Shibarov) 3. Institut metodov obucheniya Akademii pedagogicheskikh nauk (for Zavitayev, Padalko) 4. Chlen-korrespondent APN RSFSR (for Verzilin)  
(School gardens)

PCHELKO, Aleksandr Spiridonovich; ZAVITAYEV, Petr Alekseyevich;  
PROPERANSOVA, N.V., redaktor; SOKOLOVA, P.Ya., tekhnicheskii  
redaktor

[Elements of general science teaching in primary schools; a  
practical manual] Elementy politekhnicheskogo obucheniia v nachal'noi  
shkole; metodicheskoe posobie. Izd. 3-e, perer. Moskva, Izd-vo  
Akad. pedagog. nauk RSFSR, 1956. 95 p. (MLBA 10:4)  
(Science--Study and teaching)

ROZANOV, Ivan Grigor'yevich, starshiy nauchnyy sotrudnik; ~~ZAVITAYEV, Petr~~  
~~Aleksandrovich~~ starshiy nauchnyy sotrudnik; SKATKIN, M.N., redaktor;  
POLENKO, A.S., redaktor; DZHMATYEV, S.G., tekhnicheskii redaktor

[Handicraft lessons for the fourth grade] Uroki ruchnogo truda v  
chetvertom klasse. Pod red. Skatkina. Izd. 2-oe, dop. 1 perer.  
Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1956. 231 p.  
(MIRA 10:11)

1. Institut teorii i istorii pedagogiki (for Rozanov). 2. Institut  
metodov obucheniya Akademii pedagogicheskikh nauk RSFSR (for  
Zavitayev). 3. Chlen-korrespondent Akademii pedagogicheskikh nauk  
RSFSR (for (Skatkin)  
(Handicraft)

ZAVITAYEV, Petr Alekseyevich; RYBAKOVA, N.T., redaktor; DZHATITSEV, S.G.  
tekhnicheskiiy redaktor.

[Work of pupils of grades 1-4 in school gardens; a practical manual  
for teachers] Trud uchashchiksia I-IV klassov na uchebno-opytnom  
uchastke; metodicheskoe posobie dlia uchitelei. Moskva, Gos.uchebno-  
pedagog.izd-vo M-va prosv.RSFSR, 1957, 97 p. (MIRA 10:4)  
(School gardens)

ZAVITAYEV, P. A.

Zavitayev, P. A. - "Academician Trofim Denisovich Lysenko, Chief of the soviet Michurinians," *Nach. shkola*, 1949, No. 3, p. 5-11

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Shtey, No. 13, 1949)

ZAVITAYEV, Petr Alekseyevich; RYBAKOVA, N.T., redaktor; DAZETIYEV, S. G.  
tekhnicheskii redaktor.

[Equipment for nature study lessons; manual for elementary school  
teachers] Oborudovanie zaniatii po prirodovedeniiu; posobie dlia  
uchitelia nachal'noi shkoly. Izd. 4-e. Moskva, Gos. uchebno-pedagog.  
izd-vo. Ministerstva prosveshchenia RSFSR, 1955. 174 p. (MLRA 8:9)  
(Nature study) (Biological apparatus and supplies)

— 17/17/75  
KRAYEV, Ivan Stepanovich; SIONOV, M.M., retsenzent; MAYORSKIY, G.I.,  
retsenzent; ZAYITAYEV, Ye.F., red.; MAKRUSHINA, A.N., red.izd-va;  
SALAZKOV, N.P., tekhn.red.

[Principles of the commercial exploitation of river transportation  
and the organization of freight operations] Osnovy kommercheskoi  
ekspluatatsii rechnogo transporta i organizatsii gruzovykh rabot.  
Moskva, Izd-vo "Rechnoi transport," 1957. 322 p. (MIRA 11:6)  
(Inland water transportation)



BODROV, A.D.; SHIPILIN, N.N.; SLONOV, M.N., retsenzent; KRAYEV, I.S.,  
retsenzent; ZAVITAYEV, Ye.F., redaktor; VINOGRADOVA, N.M.,  
redaktor izdatel'stva; TSVETKOVA, S.V., tekhnicheskiiy redaktor

[Manual for the receiving and shipping clerk of dry cargoes] Posobie  
priemodatchiku skhogrúzov. Izd. 3-oe. Moskva, Izd-vo "Rechnoi  
transport," 1957. 199 p. (MIRA 10:10)

(Dry-goods--Transportation)  
(Inland water transportation)

ALEKSEYEV, Nikolay Pavlovich; SLOVON, M.N., retsenzent; NIKITIN, M.F.,  
retsenzent; ZAVITAYEV, Ye.F., red.; LOBANOV, Ye.M., red.izd-va;  
BOBROVA, V.A., tekhn.red.

[Handbook on cargo handling, inland water transportation in  
containers and forwarding operations] Spravochnik po transportno-  
ekspeditzionnoi rabote i konteinernym perevozkam na rechnom  
transporte. Izd.2., perer. i dop. Moskva, Izd-vo "Rechnoi trans-  
port," 1960. 225 p. (MIRA 13:5)  
(Cargo handling) (Inland water transportation)

15.8/100

39635

S/191/62/000/008/001/013  
B124/B180

AUTHORS: Kirillova, E. I., Matveyeva, Ye. N., Zavitayeva, L. D.,  
Pratkina, G. P., Obol'yaninova, N. A.

TITLE: Aging of polystyrene plastics. Thermal aging of styrene -  
acrylonitrile copolymers

PERIODICAL: Plasticheskiye massy, no. 8, 1962, 3-10

TEXT: Thermal aging of styrene - acrylonitrile copolymers CH-10 (SN-10) (10.8% acrylonitrile groups), CH-20 (SN-20) (20.15 and 21.4% acrylonitrile groups, molecular weight 113,000 and 119,000), and also CH-28 (SN-28) (29.55, 26.3, and 27.7% acrylonitrile groups, molecular weight 168,000, 120,000, and 132,000) was investigated on films 50-100  $\mu$  thick between 140 and 180°C, and compared with that of polystyrene films. For the copolymers, dichloro ethane was used as solvent and petroleum ether as precipitant, with benzene and ethyl alcohol for the polystyrene. The molecular weights were calculated from the viscosimetric data of L. N. Veselovskaya. The degree of aging was estimated on the basis of the measured intrinsic viscosity, the nitrogen content, and the carbonyl group

Card 1/3

Aging of polystyrene plastics. ...

S/191/62/003/008/001/013  
B124/B180

formation determined by absorption spectrometry. The rate of formation of oxygen-containing groups falls as the acrylonitrile content in the copolymer rises, and also with its molecular weight (Fig. 8). It is 2-3 times greater in polystyrene than in the SN-28 copolymer. Azomethines with one OH group were effective stabilizers in ortho- and para-position in aniline and one  $\text{NH}_2$  group in para-position only. Azomethine obtained by introducing the group  $(\text{CH}_3)_2\text{N}$  in benzaldehyde proved to be inefficient while the same compound with one OH group in aniline was highly effective. Azomethines based on salicyl aldehyde and hydroxy aniline are also good stabilizers. All azomethines discolor the product and are only recommended for black products. Effective alkyl phenols are phenyl cresylol propane, phenyl isopropyl resorcin, phenyl isopropyl pyrocatechin, 3-methyl-4-phenyl ethyl-6-isopropyl phenol, 3-methyl-4-phenyl isopropyl-6-isopropyl phenol, butyl gallate, bis-[2-tert-butyl-4-methyl phenol]-methane. Extension of the carbon chain between two benzene rings does not greatly affect the stabilizing effect while the latter is increased by introducing a  $\text{CH}_3$  group in the benzene ring in the case of dimethyl phenyl-p-cresol and dicresylol propane. There are 11 figures

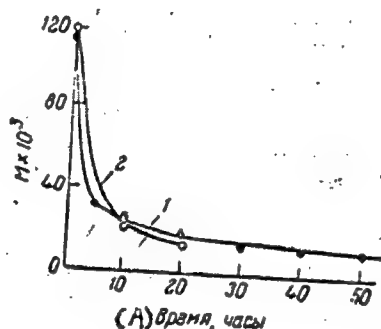
Card 2/3

Aging of polystyrene plastics. ...

S/191/62/000/008/001/013  
B124/B180

and 5 tables. The three English-language references are: S. L. Madoraky, S. Straus, Ind. Eng. Chem. 40, 846 (1948); H. H. G. Ellinek, J. Polymer Sci. 3, 850 (1948); 4, No. 1 (1949); M. J. Reiney, M. Tryon, B. G. Achhammer, J. Res. Nat. Bur. Stand. 51, No. 3, 155 (1953).

Fig. 8. Change of molecular weight in thermal aging: (1) SN-20; (2) SN-28.  
Legend: (A) time, hrs.



Card 3/3

KIRILLOVA, E.I.; MATVEYEVA, V.G.; ZAVITAYEVA, L.D.; GLAGOLEVA, Yu.A.;  
LEYTMEN, K.A.; FRATKINA, G.P.

Studying the physicomachanical properties of shock-resistant  
polystyrenes during aging. Plast. massy no.2:43-45 '66.  
(MIRA 19:2)

KIRILLOVA, E.I.; MATVEYEVA, Ye.<sup>N</sup>.; ZAVITAYEVA, L.D.; FRATKINA, G.P.;  
OBOL'YANINOVA, N.A.

Aging of polystyrene plastics; thermal aging of styrene copolymers  
with acrylonitrile. Plast.massy no.8:3-10 '62. (MIRA 15:7)  
(Styrene polymers) (Plastics)

ICC NR: AP6005062

AUTHORS: Kipillova, E. I.; Matveyeva, Ye. N.; Zavitayeva, L. D.; Glagoleva, Yu. A.; Leytman, K. A.; Pratkina, G. P.

ORG: none

TITLE: A study of the physicommechanical properties of impact-resistant polystyrenes during aging

SOURCE: Plasticheskiye massy, 1977, No. 1, p. 1-4.

TOPIC TERMS: polystyrene, light aging, thermal aging, impact strength, hydroxyl group, polymer

ABSTRACT: The changes in the mechanical properties of impact-resistant polystyrenes during aging are studied.

ADDITIONAL INFORMATION:

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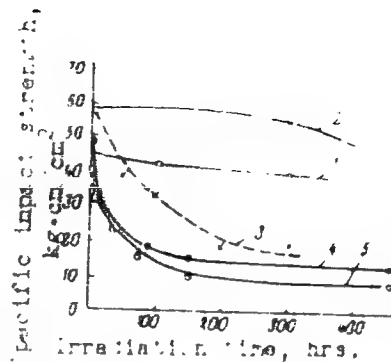
1977-740.44-13675.024.7210.1-530.3



L 20799-66

ACC NR: AP6005953

Fig. 1. Change in specific impact strength with irradiation: 1 and 2 - SNP; 3 - SNP (irradiation at 50-60C); 4 - UPP-2 with  $\text{TiO}_2$  filler; 5 - UPP-2 without filler.



The SNP-2 was practically unchanged by thermal aging, while the other styrenes were 10-15% lower than the original.

Fig. 2. Change in specific impact strength with prolonged heat aging at 60C: 1 - UPP-2 without filler; 2 - UP-1; 3 - SNP; 4 - PS-SU<sub>3</sub>; 5 - PS-SU<sub>2</sub>.



L 20799-66

ACC NR: AP6005953

Ultraviolet rays and increased temperatures affect polystyrene  
specific impact strength and ...

IF ...

TH ...

Card 3/3

ZAVITAYEVA, V., inzh.; KOVALEV, A., inzh.

Using epoxide pastes in repairing cylinder blocks and heads.  
Avt. transp. 37 no.7:27-28 J1 '59. (MIRA 12:10)  
(Automobiles--Engines)

ZAVITAYEVA, V.G.; KOVALEV, A.F.

Using epoxide resins and their compounds in repairing motor vehicle engines. Obm.tekh.opyt.na avt.transp. No.4:8-20 '60.

(MIRA 13:12)

(Motor vehicles--Engines)  
(Resins, Synthetic)

Polish Technical Abst.  
No. 4, 1953  
Transport

2107

629 119 2413

Zawistowski F. Outdoor Parking of Motors Vehicles.

„Bazgarazowe przechowywanie samochodów”. Motoryzacja, No. 1, 1953, pp. 81-82, 1 tab.

Outline of the proper organization of outdoor depots, to dispense with garages. Investigations over this problem together with methods advanced by the Central Office of Studies and Design of Road and Air Transport in respect of preliminary for, and the actual process of heating the vehicle engine by means of electrical energy or steam. Description of a device installed on an engine for the admission of steam. Comparison of the approximate cost of keeping vehicles out of doors, and using electric heaters - with the cost of garaging.

DOMBROVSKIY, T.; ZAVISTOVSKIY, S.; MINTSER, T.; GADOMSKAYA, Ya.; TYRAKOVSKIY, M.

Toxic effect of parathion on the organism of white rats. Vop. pit.  
24 no. 6:7-12 N-D '65 (MIRA 19:1)

1. Katedra tekhnologii rybnoy promyshlennosti Vyshey sel'sko-  
khozyaystvennoy shkoly v Ol'shtyne i kafedra gistologii i em-  
briologii Meditsinskoy akademii v Gdanske, Pol'sha.

ZAVIZINA, N.M. (Novosibirsk)

Students receiving practical experience in a plastics factory.

Khim. v shkole 13 no.5:65-67 S-O '58.

(MIRA 11:9)

(Plastics industry--Study and teaching)

ZAVIZION, Ye.F., uchitel'nitsa

Experiments with latex and polyvinyl alcohol. Khim. v shkole  
18 no.3:76-79 My-Je '63. (MIRA 16:9)

1. Shkola rabochey molodezhi No.98, Khar'kov.  
(Polymers--Experiments)



BC B-1-4

RESEARCH AND REPERTORY INDEX

RAPID DETERMINATION OF SULPHUR IN BASIC SLAG.  
 R. M. Colovati and P. S. Lavjator (Zavod. Lab., 1934,  
 3, 502--503).--0.7--1 g. of powdered slag is shaken  
 during 2--3 min. at room temp. with 200 c.c. of O<sub>2</sub>-free  
 H<sub>2</sub>O, 10 c.c. of 0.17N-I, and 15 C.C. of conc. HCl, the  
 residual I is titrated, and the S content thence calc.:  
 CaS & I<sub>2</sub>=CaI<sub>2</sub> & S. The method is applicable only  
 to fresh slag, the val. obtained being 10% lower after  
 it has been kept near the furnace for 10 hr. A. T.

ADDITIONAL LITERATURE CLASSIFICATION

NO.	DATE	BY	REMARKS
1	11	11	11
2	12	12	12
3	13	13	13
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89	99	99	99
90	100	100	100

ZAVLIN, I.

Production and use of foam concrete. Mais. ind. SSSR 31  
no.4:14-16 '60. (MIRA 14:7)

1. Leningradskiy myasokombinat.  
(Air-entrained concrete)

ACC NR: AP6021447 (A) SOURCE CODE: UR/0413/66/000/011/0073/0073

INVENTORS: Zavlin, P. M.; Ayrapetyan, S. G.

ORG: none

TITLE: A method for obtaining polyphosphonates. Class 39, No. 182328 [announced by Leningrad Electrotechnical Institute of Communications im. Professor M. A. Bonch-Bruyevich (Leningradskiy elektrotekhnicheskiy institut svyazi)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 73

TOPIC TAGS: phosphorus compound, ester, ethyl, phosphinic acid

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonates by homopolycondensation of heated aminoethyl esters of phosphinic acids. To enlarge the assortment of polyphosphonates with self-extinguishing properties, N- $\beta$ -hydroxyethyl  $\beta$ -aminoethyl ester of  $\beta$ -chloroethyl-phenylphosphinic acid is used.

SUB CODE: 07/ SUBM DATE: 28Apr65

Card 1/1

UDC: 678.675'1.678.85

L 30967-66 EWP(1)/EWI(m) RM/WW

ACC NR: AP6000979

(A)

SOURCE CODE: UR/0286/65/000/022/0058/0058

AUTHORS: Zavlin, P. M.; Sokolovskiy, M. A.; Yurenko, I. V.

ORG: none

TITLE: A method for obtaining esters of polyphosphonitrile ] Class 39, No. 176402

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 58

TOPIC TAGS: polymer, polymerization, catalytic polymerization, titanium compound, catalyst, chlorine compound, titanium compound

ABSTRACT: This Author Certificate presents a method for obtaining esters of polyphosphonitrile on the basis of oligomers of phosphonitrile chloride. To increase the variety of this type of polymers, the oligomers of phosphonitrile chloride are reacted with epichlorohydrin in the presence of a titanium tetrachloride catalyst.

SUB CODE: 11/ SUBM DATE: 13Apr63

07/

Card 1/1 dC

UDC: 678.85

ZAVLIN, P.M.; SOKOLOVSKIY, M.A.; TENISHEVA, R.S.

Interaction of natural rubber with dialkyl phosphites. Zhur.  
prikl. khim. 37 no. 4:928-929 Ap '64. (MIRA 17:5)

GINZBURG, O.F.; ZAVLIN, P.M.

Aryl methane dyes. Part 3: Certain relations between the structure and acid-basic properties of triphenyl methane dyes. Zhur.ob.khim. 32 no.11:3559-3562 N '62. (MIRA 15:11)

1. Leningradskiy tekhnologicheskii institut imeni Lensoveta.

" (Methane) (Dyes and dyeing)  
(Hydrogen-ion concentration)

SOKOLOVSKIY, M.A.; ZAVLIN, P.M.; OEFER, Ye.L.; MOSHKIN, P.A.

Phosphorus-containing monomers. Part 1: Bis-esters of  
vinylphosphinic acid having different functional groups.

Zhur. ob. khim. 31 no. 11:3652-3654 N 161. (MIRA 14:11)  
(Phosphinic acid) (Phosphorus organic compounds)

MAKARENIYA, A.A., kand. khim. nauk; ZAVLIN, P.M., kand. khim.  
nauk; RAZUMOVSKIY, V.V., prof., red.

[Chemistry textbook] Uchebnoe posobie po khimii. Lenin-  
grad, Leningr. elektrotekhn. in-t svyazi, 1964. 134 p.  
(MIRA 18:7)



ZAVLIN, P.M.; RAZUMOVSKIY, V.V.

Homopolycondensation of di-( $\beta$ -aminoethyl ester) of methyl-  
phosphinic acid. Vysokom. soed. 7 no.8:1415-1416 Ag '65.  
(MIRA 18:9)

1. Leningradskiy elektrotekhnicheskij institut svyazi.

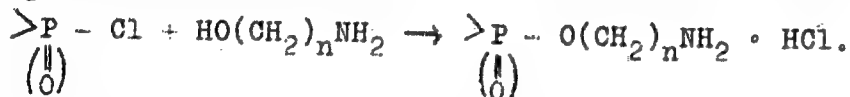
S/080/60/033/010/029/029  
D216/D306

AUTHORS: Zavlin, P.M., and Ionin, B.I.

TITLE: Preparing trialkylphosphates

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 10, 1960,  
2376 - 2378

TEXT: The authors' investigation of the reaction of fatty oxyamines with phosphorus trichloride and other chloranhydrides of phosphoric acid has shown that in the simultaneous presence of an amine group and an oxy-group the ester of phosphoric acid is formed by the general scheme:



From this it can be predicted that phosphorus trichloride will react with alcohols in the presence of primary amines forming the corresponding esters of phosphoric acid by the reaction:

Card 1/4

Preparing trialkylphosphates

S/080/60/033/010/029/029  
D216/D306



Subsequent work has shown that this is so and the present work deals with the use of aniline as the primary amine. The table shows the trialkylphosphates prepared and gives some of their data which corresponds well to the published data. Trimethylphosphate was prepared from 96 gm. (3 moles) of methanol, 279 gms. (3 moles) of aniline and 700 mls. of absolute ether; to this mixture (in a 3 necked flask fitted with a stirrer, reflux condenser and dropping funnel), at 15-20°C, a solution containing 137 gm. (1 mol)  $\text{PCl}_3$  in 150 mls. of absolute ether was slowly added with continuous stirring. The reaction was complete in 1-1.5 hours. The resultant liquor was freed of aniline hydrochloride and the solvent was distilled off; the yield was 72 gms. Triethylphosphate was prepared using a similar set up and the following reagents: 69 gm. (1.5 moles) of ethyl alcohol, 139 gms. (1.5 mole) of aniline, and 500 mls. of benzene; to this mixture at 18-20°C 68.5 gms. of  $\text{PCl}_3$  of benzene were

Card 2/4

Preparing trialkylphosphates

S/080/60/033/010/029/029.  
D216/D306

added. The reaction was complete in 1-1.5 hours. Tripropylphosphate, triisopropylphosphate and tributylphosphate were prepared in an analogous manner to triethylphosphate. There are 1 table and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: A.A. Toord-Moore, J.H. Williams, J. Chem. Soc., 1469, 1947.

SUBMITTED: March 9, 1960

Card 3/4

ZAVLIN, P. M., CAND CHEM SCI, "STUDY OF CONVERSIONS  
OF AMINOTRIPHENOLMETHANE DYES IN ACID MEDIA." LENIN-  
GRAD, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR, LE-  
NINGRAD ORDER OF LABOR RED BANNER TECHNOL INST IM LENSO-  
VET). (KL, 3-61, 200).

GINZBURG, O.F.; ZAVLIN, P.M.

Conversions of triphenylmethane dyes in acid media. Part 2: Study  
of complex acid-base equilibria. Zhur. ob. khim. 31 no.1:75-80  
Ja '61. (MIRA 14:1)

1. Leningradskiy tekhnologicheskii institut imeni Lensoveta.  
(Dyes and dyeing) (Acid-base equilibrium)

GINZBURG, O.F.; ZAVLIN, P.M.

Hydrolysis of malachite green derivatives containing methyl and sulfo groups. Zhur. ob. khim. 27 no.3:678-681 Mr '57. (MIRA 10:6)

1. Leningradskiy tekhnologicheskii institut imeni Lensoвета.  
(Malachite green)

SOV/79-29-2-34/71

AUTHORS: Ginzburg, O. F., Ioffe, D. V.,  
Zavlin, P. M.

TITLE: On Dyestuffs With Antipyrine Nuclei (O krasitelyakh s anti-  
pirinovymi yadrami). VI. Dyestuffs With One Antipyrine Nucleus  
(VI. Krasiteli s odnim antipirinovym yadrom)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 519-522 (USSR)

ABSTRACT: On the heating of antipyrine with Michler's ketone in the  
presence of phosphorus trichloride the dyestuff (I) is formed  
to the ion of which structure (I) corresponds. This dyestuff  
colors cotton treated with tannin blue and the wool fiber  
violet. On the action of alkali liquor (I) is transformed  
into bis-(n-dimethyl-amino-phenyl)-antipyril carbinol, which  
on acidification again passes into the dyestuff. Dyestuff (II)  
which contains only one antipyrine nucleus was synthesized  
from antipyril phenyl ketone and dimethyl alanine. The  
authors tried to synthesize (II) also by reaction of  
4-dimethyl-amino benzophenone with antipyrine in the presence  
of  $PCl_3$ , but only traces of (II) were produced and diantipyril  
methane was obtained from the reaction mass, the formation of

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SOV/79-29-2-34/71

On Dyestuffs With Antipyrine Nuclei.  
VI. Dyestuffs With One Antipyrine Nucleus

which can be explained only by cleavage of 4-dimethyl-amino benzophenone which is far-reaching under these conditions. Compound (II) is an asymmetrical dyestuff that is similar to the orange antipyrine dyestuff and malachite green as far as their arrangements are concerned. The dyestuffs synthesized hydrolyze in aqueous solutions, as is the case with triaryl methane dyestuffs. The hydrolysis constants of the dyestuffs which were determined by the colorimetric method are listed in table 1. For comparison also the hydrolysis constants of the orange antipyrine dyestuff and malachite green are given in the same table. The asymmetrical dyestuff that is produced from antipyril phenyl ketone and dimethyl aniline possesses a higher resistivity to hydrolysis than the corresponding symmetrical dyestuffs, malachite green and antipyrine orange. There are 1 figure, 2 tables, and 3 references, 2 of which are Soviet.

Card 2/3

On Dyestuffs With Antipyrine Nuclei.  
VI. Dyestuffs With One Antipyrine Nucleus

SOV/79-29-2-34/71

ASSOCIATION: Leningradskiy tekhnologicheskij institut imeni Lensovet  
(Leningrad Institute of Technology imeni Lensovet)

SUBMITTED: December 31, 1957

Card 3/3

8/079/60/030/05/17/074  
B005/B126

AUTHORS: Ginzburg, O. F., Zaylin, P. M.

TITLE: Conversions of Triphenylmethane Dyes in Acid Media.  
I. Determination of the Basicity Constants of the Amino Groups in the Cations of the Dyes

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1479-1485

TEXT: In order to determine the connection between the structure and the acid-basic properties of triphenylmethane dyes, the authors examined the influence of the position of a substituent X on the value of the basicity constant of the dimethyl amino groups. They analyzed acid solutions of dyes of the group malachite-green. Univalent cations of diaminotriphenylmethane dyes (A) were almost immediately converted into strongly colored divalent cations (B) in acid medium (Ref. 3). The scheme of this conversion (A) + H<sup>+</sup> ⇌ (B) is given (1). The analysis of dyes in which the substituent X was in meta- or para position to the central carbon atom, showed that in this case, just as the divalent cation of malachite-green, the cations (B) are instable and gradually disappear again. This leads to

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Conversions of Triphenylmethane Dyes in Acid Media. I. Determination of the Basicity Constants of the Amino Groups in the Cations of the Dyes

S/079/60/030/05/17/074

B005/B126

a displacement of the above equilibrium (1), whereupon the concentration of the univalent cation in the solution also decreases. Fig. 1 shows the decrease in optical density of solutions of three of the dyes analyzed at  $\lambda_{\max}$  of the form (A), in dependence on the time at pH 1.1. The optical densities  $D_0$  which were used to calculate the basicity constants of the dimethylamino groups, were obtained by extrapolation at the time  $t = 0$ . When on the other hand the substituent X is in ortho-position to the central carbon atom, the optical density of acid solutions of the dyes is stable (Fig. 2). Therefore a substituent in ortho-position lends its stability to the divalent cation. This result is also confirmed by the analysis of the spectra of the dyes (Fig. 3). When using triphenylmethane dyes as indicators, it is therefore advantageous to take not malachite-green itself, as proposed in publications (Ref. 5), but ortho-substituted derivatives of malachite-green. Table 1 shows the basicity constants of the dimethylamino groups of 13 different substituted dyes of the malachite-green group. These constants differ only relatively little from the basicity constant of malachite-green ( $2 \cdot 10^{-13}$ ). Table 2

Card 2/3

Conversions of Triphenylmethane Dyes in Acid Media. I. Determination of the Basicity Constants of the Amino Groups in the Cations of the Dyes S/079/60/030/05/17/074 B005/B126

shows the variation in the optical density of solutions of the 13 dyes at two different pH values in dependence on the time (0, 4, 8, 12, and 16 minutes after production of the solution). The table also gives optical density,  $D_{\max}$  of its univalent cation (type (A)) and the  $pK_o$ -value of the dimethylamino groups of each dye, calculated by a given equation. The determination of the basicity constants and the recording of the absorption spectra of solutions of o-sulfomalachite-green are described in the experimental part. The absorption spectra were taken on a type CФ-4 (SF-4) spectrophotometer. Table 3 shows the optical density of solutions of o-sulfomalachite-green, and the percentage ratio of the types (A) and (B) in the solution at different pH values. There are 3 figures, 3 tables, and 9 references: 4 Soviet, 2 American, and 3 German.

ASSOCIATION: Leningradskiy tekhnologicheskii institut imeni Lensovet  
(Leningrad Technological Institute imeni Lensovet)

SUBMITTED: June 1, 1959

Card 3/3

SOKOLOVSKIY, M.A.; ZAVLIN, F.M.

Reactions of phosphorus acid chloroanhydrides with bifunctional organic compounds. Part 1: Reaction of phosphorus acid chloroanhydrides with aliphatic hydroxyamines. Zhur. ob. khim. 30 no.11:3562-3565 N'60. (MIRA 13:11)  
(Amines) (Phosphorus acids)

1226/1305

5.3630

AUTHORS:

Sokolovskiy, M. A., Zavlin, P. M., Gefter, Ye. L.  
and Moshkin, P. A.

TITLE:

Full esters of vinylphosphinic acid with different  
functional groups

PERIODICAL:

Zhurnal obshchey khimii, v. 31, no. 11, 1961, 3652-3654

TEXT:

The authors studied the reaction of di( $\beta$ -chloroethyl) vinyl-  
phosphinate (I) with ethanolamine and  $\omega$ -aminoenanthic acid and prepared  
two previously unsuspected compounds: bis(N- $\beta$ -oxyethyl- $\beta$ -aminoethyl)

vinylphosphinate --  $\text{CH}_2=\text{CH}-\overset{\text{O}}{\underset{\text{O}}{\text{P}}}(\text{OCH}_2\text{CH}_2\text{NHCH}_2\text{CH}_2\text{OH})_2$  (II); and bis(N- $\beta$ -

carboxyl-hexyl- $\beta$ -aminoethyl) vinylphosphinate --  
 $\text{CH}_2=\text{CH}-\overset{\text{O}}{\underset{\text{O}}{\text{P}}}(\text{OCH}_2\text{CH}_2\text{NH}(\text{CH}_2)_6\text{COOH})_2$  (III). The full esters are of interest

since they contain functional groups capable of condensation processes.

Card 1/2

20189

S/079/61/031/011/010/016  
D228/D305

Full esters of...

secondary amines and hydroxyl groups, or secondary amines and carboxyl groups. Previous work by Ye. L. Gefter (Ref. 3: Zh. obshch. khimii, 28, 2500, 1958) and Ye. L. Gefter and P. A. Moshkin (Ref. 4: Plastmassy, no. 4, 54, 1960) showed that I may serve as the original material for synthesis of II and III. II was prepared by stirring a mixture of I and ethanolamine in a flask fitted with a reflux condenser, thermometer, and dropping funnel for about 2 hr. at 40 ~ 45°; the reaction was carried to completion by heating for a further hour on a water-bath at 80°. The full ester was obtained from the dihydrochloride by removing the alcohol and NaCl formed during its treatment with Na alcoholate. The procedure for the synthesis of III from I, aq. alcohol, and α-aminoenanthic acid is similar, apart from the fact that the mixture is heated for 4 hr. to obtain the dihydrochloride. There are 5 Soviet-bibliographic references.

SUBMITTED: December 6, 1960

Card 2/2



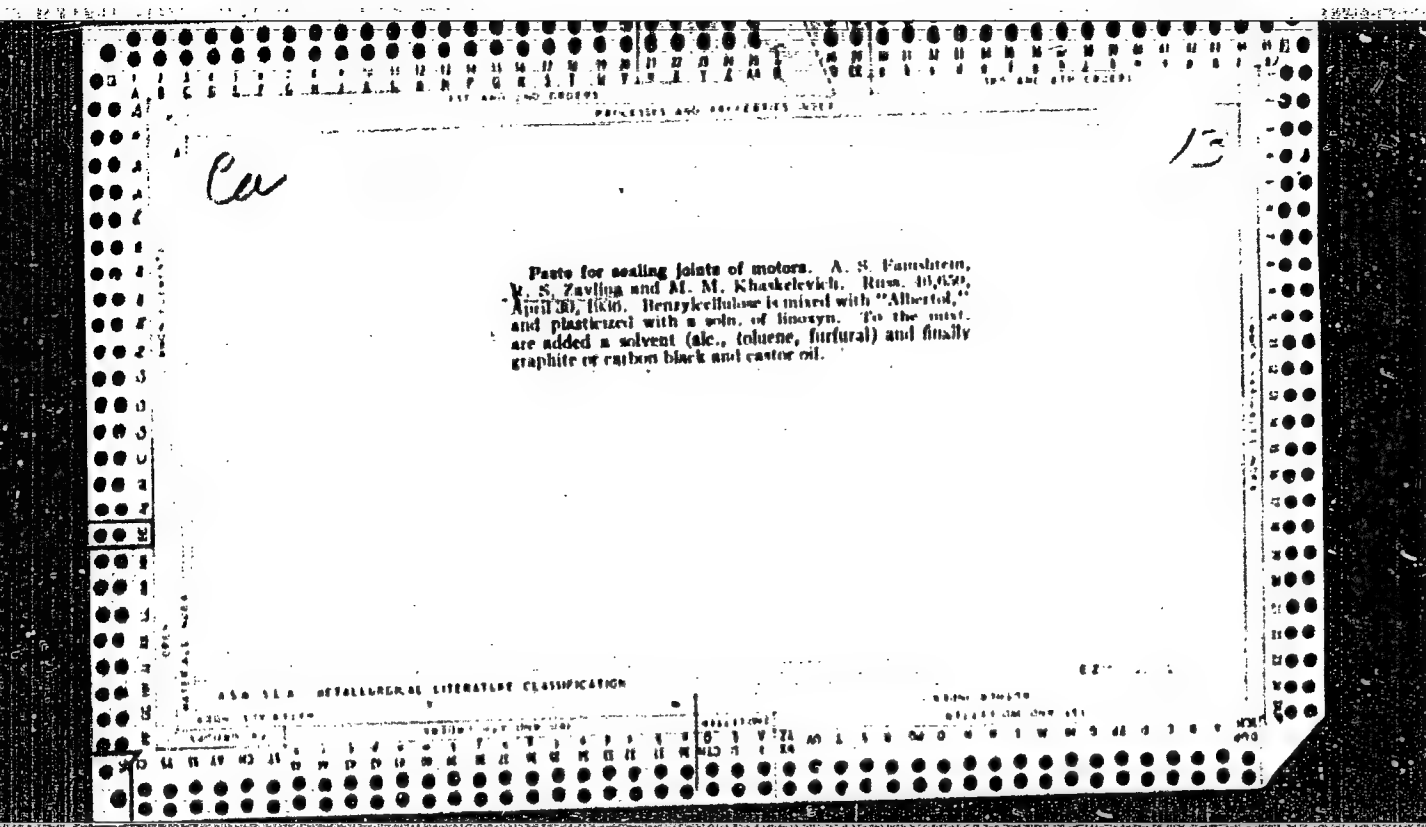
ACC NR: AP5025024

SOURCE CODE: UR/0286/65/000/016/0081/0081

Card  
nw

DOC: 678.67. 672.26





SHVARTSMAN, D.A.; SKORODUMCVA, V.A.; ZAVLINA, P.S.

Correct analysis of yarn breakage on spinning spindles. Tekst.  
prom. 21 no. 6:4-8 Ja '61. (MIRA 15:2)  
(Spinning)

L 44584-66 EWT(m)/EWP(1) IJP(c) RM

ACC NR: AP6015670 (A) SOURCE CODE: UR/0413/66/000/009/0076/0076

INVENTOR: Fingazuz, I.M.; Zavlina, R. Z.; Trofimova, N. V.; Piastro,  
O.V.

ORG: none

TITLE: Method of obtaining polyvinyl dimethoxymethane, Class 39,  
No. 181291, announced by State Scientific Research Institute of  
Polymers (Gosudarstvennyy nauchno-issledovatel'skiy institut polimeriza-  
tsionnykh plastmass)

SOURCE: Izobreteniya, promyshlennyye obratstsy, otvarnyye znaki, no. 9,  
1966, 76

TOPIC TAGS: polyvinyl, polyvinyl dimethoxymethane

ABSTRACT: An Author Certificate has been issued for a method of obtain-  
ing polyvinyl dimethoxymethane by a heterogeneous process of polyvinyl  
alcohol and formaldehyde which occurs in a water medium upon heating in  
the presence of hydrochloric acid and an emulsifier. To obtain a finely  
divided product, carboxymethylcellulose is used as the emulsifier.  
[Translation]. [NT]

SUB CODE: 11/ SUBM DATE: 09Nov64/

Card 1/1 LGM

UDC: 678.744.531.07

ZAVOD YE. IS

18,6200 - 21.08.2004

S/1995/60/Doc/Rev.1/Corr.2/Annex  
E.195/E.185

## ATTACH

Manufacturer of Aluminum Tubes from Spun-out Materials  
by Extrusion and Rolling

Mineralogical Zhurnaly, 1960, No. 5, pp. 5-7

[illegible]

Case 1/1

The surface finish of tubes extracted at temperatures above 950°C was extremely bad. The condition of the emulsant and particularly of the sandal, after one operation only, was also very bad, owing to slimes adhering to their surface, which was also the cause of the longitudinal cracking of the extracted tubes. Some of the longitudinal cracks were obtained on sandal, but even when the material of the emulsant after each operation. Several times those pores had to be scraped from the tubes by attempts with sand. Consequently, the best results were obtained with emulsants containing 0 parts of sodium chloride and 1 part of sandal. The emulsant, however, failed to prevent the formation of the longitudinal cracks. The extracted tubes (measuring 12 x 31, 13 x 2.9, 41 x 5 and 50 x 7.3 mm) had the following properties: D.T.S. = 70 kg/cm<sup>2</sup>; elongation, % = 224; reduction of area, % = 276; notched hardness, kg/mm<sup>2</sup> = 22. The material of the extracted tube was partially anisotropic in respect of its mechanical properties: micro-spectrums, cut from the tubes and

Card 2/4

tested in the direction parallel to the tube axis. Had  $E_{1,2} = 104.6$  kg/cm<sup>2</sup> and  $\nu = 0.26$ , and  $E_{3,4} = 104.7$  kg/cm<sup>2</sup>, the corresponding figures for specimens cast in the transverse direction were 103.6 kg/cm<sup>2</sup> and 0.25, and 0.25, going to the last of suitable equipment, the surface of the casted tubes were not improved by grinding. The slight curvature of the tubes was removed by hammering with wooden mallets at 60°C. and it was found that with heat treatment, specimens were not of the same strength. The tensile strength of the tubes was 60 kg/cm<sup>2</sup> and 60% prohibited, no important bending was felt in the mandrel. The rolling operation was carried out on a tube rolling mill of the Reckwirth type. To avoid cracking during rolling, the ends of each tube were embedded to prevent a taper of at least 60 to 80 mm long. After the first rolling operation, during which the temperature of the tube rose to 200°C, the tubes were annealed at 700°C by resistance heating, the heating time varying between 20 and 30 sec. The ends of the tubes were then cut off again and tapered, after which the second rolling

Case 3/4

operations was restricted only. The three men were not standing at the first rolling operation, without causing increase of the "back" mass of 200 mm. After the second annealing operation, the following dimensions (mm) were produced by rolling: 21 x 20 x 15 x 3.5, 20 x 17.2, 26 x 2.3, 26.5 x 1.8, 27.6 x 1.6, 32 x 1.5, 35 x 1.7, 35 x 1.4. The intensity of the stresses varied between 1500 and 6000 mm<sup>2</sup>. While the remaining rollers moved along the line, the rollers of the second and third stands were replacing hundreds of titanium or zirconium rollers, which will have to be found before it can become a manufacturing process. There is a table.

## ASSOCIATIONS

Техичермет  
Кол'чугински савод им. Ордобониктее  
(Кол'чугин Ворхе им. Ордобониктее)

Card 6/6

ZAVODCHIKOV, A.B.

Regime of soil moisture in the fall, winter and spring periods  
in northern Kazakhstan. Trudy GGI no.92:138-151 '64.

(MIRA 17:11)

SHIROKOV, S.F.; ZAVODOVA, Ye.I. (Krasnodar)

Treatment of children with infectious nonspecific polyarthritia  
at the Goryachiy Klyuch health resort. Sovet. med. 26 no.5:  
148-151 My'63 (MIRA 17:1)

1. Iz kafedry detskikh bolezney (zav. - prof. S.F. Shirokov)  
Kubanskogo meditsinskogo instituta i detskogo sanatoriya  
(glavnyy vrach Ye.I.Zavodova) kurorta Goryachiy Klyuch.



ZAVODCHIKOV, A.B.

Losses of snow water through infiltration and accumulation in  
the drainage basin during the snow melt in northern Kazakhstan.  
Meteor. i gidrol. no.3:39-43 Mr '62. (MIRA 15:3)  
(Kazakhstan--Thawing)

ZAVODCHIKOV, A.B.

Experience in calculating the hydrographs of spring floods  
by the genetic runoff formula. Trudy GGI no.127:158-173 '65.  
(MIRA 18:9)

ZAVODCHIKOV, A.B.

Characteristics of the distribution and melting of the snow cover  
in northern Kazakhstan. Trudy GGI no. 83:28-46 '60. (MIRA 14:1)  
(Kazakhstan—Snow) (Thawing)

ZAVODCHIKOV, A.B.

Conditions of formation and the methodology of precalculating  
the extent of snow water runoff in small rivers of northern  
Kazakhstan. Trudy GGI no.82:50-75 '62. (MIRA 15:6)  
(Kazakhstan--Runoff)

*Z. A. ZAVODCHIKOV, A.G.*  
ZAVODCHIKOV, A.G.

Current track straightening. Put' 1 put, khoz. no. 1:28 Ja '58.

(KIRA 11:1)

1. Starshiy dorozhnyy master, stantsiya Darnitsa Yugo-Zapadnoy dorogi.  
(Railroads--Track)

ZAVODCHIKOV, Aleksandr Georgiyevich; KRAOML', Aleksandr Timofeyevich;  
SUROKIN, N.N., redaktor; KHITROV, P.A., tekhnicheskij redaktor

[Section maintenance by trackmen] Popikotnoe vypolnenie rabot  
putevymi obkhodchikami. Moskva, Gos. transp. zhel-dor. izd-vo,  
1955. 23 p. (MLRA 8:6)  
(Railroads--Maintenance and repair)

KLEMENT'YEV, V.V.; ZAVODCHIKOV, A.N.; DUDIN, R.N.; MIKHAYLOV, V.I.;  
GANOVA, T.N.

Roasting of nickel matte in a fluidized bed furnace. TSvet. met.  
36 no.6:29-34 Je '63. (MIRA 16:7)

(Nickel--Metallurgy) (Fluidization)

IVASHKOV, Il'ya Il'ich, kand.tekhn.nauk; ZAVODCHIKOV, D.A., dotsent,  
red.; SMIRNOVA, G.V., tekhn.red.; SOKOLOVA, T.P., tekhn.red.

[Laminated chains; design and construction] Plastinchatye  
tsepi; konstruirovaniye i raschat. Moskva, Gos.nauchno-tekhn.  
izd-vo mashinostroit.lit-ry, 1960. 263 p. (MIRA 13:5)  
(Chains)



1. ZAVODCHIKOV, D.A.
2. USSR (600)
4. Glass Manufacture
7. Homogenization and stabilization of batch components in the glass industry, Stek.  
1 ker. 10 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.

ZAVODCHIKOV, D.A.; NEMETS, Ya.L., inzhener, redaktor; STUPIN, A.K.,  
redaktor; MATVIEVA, Ye.M., tekhnicheskiy redaktor.

[Elevators] Gruzepod'emnye mashiny. Moskva, Gos. nauchno-tekhn.  
izd-vo mashinostroit. lit-ry, 1955. 280 p. (MLRA 9:4)  
(Elevators) (Hoisting machinery)

ZAVODCHIKOV, Dmitriy Arsen'yevich; TAMARIN, D.N., prof., retsenzent;  
DUBASOV, A.A., inzh., red. izd-va; EL'KIND, V.D., tekhn. red.

[Hoisting machinery] Gruzopod'emnyé mashiny] Izd. 2., perer. i dop.  
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 312 p.  
(MIRA 14:8)

(Hoisting machinery)

137-58-6-11817

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 89 (USSR)

AUTHOR: Zavodchikov, N.G.

TITLE: Remote Control of Steel-ladle Stoppers (Distantstionnoye upravleniye stoporami stalerazlivochnykh kovshey)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 490-493

ABSTRACT: Stal'proyekt has developed a system of hydraulic control of stoppers, consisting of electrically driven pump, a system of valves, two hoses, and a hydraulic cylinder connected with the stopper. The hydraulic system affords two lifting and two lowering speeds for the stopper rod. The valves permit control of stopper motion within the 1-10 mm/sec range. The system of valves controls the pressure, speed, and direction of the flow of liquid in the hoses. There is a special adjusting valve which, as it is turned toward closing, limits the force with which the stopper is seated in the nozzle. The pressure in the hydraulic cylinder is regulated within the bounds of 5-50 kg/cm<sup>2</sup>. Regulation of pressure and speed is made before the pouring of the steel begins. A sketch of a steel ladle equipped

Card 1/2

137-58-6-11817

**Remote Control of Steel-ladle Stoppers**

with the hydraulic stopper control is appended. The Novo-Tul'skaya metallurgical plant has developed a remote control of three stoppers for a continuous casting installation in accordance with a simplified hydraulic scheme. A drawing thereof is presented. Experience in the use of hydraulic systems of stopper control in steel teeming opens prospects for the further improvement of the process procedure, automation of the teeming procedure, and improved safety of working conditions.

V.P.

1. Steel--Production
2. Steel (Liquid)--Handling
3. Dippers--Equipment
4. Remote control systems--Equipment
5. Hydraulic systems--Applications

Card 2/2

KOROLEV, A.I.; BLINOV, S.T.; LUBENETS, I.A.; KOBURNEYEV, I.M.; TURUBINER, A.L.; VASIL'YEV, S.V.; CHERNENKO, M.A.; BELOV, I.V.; TELESOV, S.A.; MAZOV, V.P.; MEDVEDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.; TRUBETSKOV, K.M.; SHREYEROV, Ya.A.; SLADKOSHTEYEV, V.T.; PALANT, V.I.; KUROCHKIN, B.N.; ZHDANOV, A.M.; BELIKOV, K.N.; SABIYEV, M.P.; GABBUZ, G.A.; PODGORETSKIY, A.A.; ALFEROV, K.S.; NOVOLODSKIY, P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MALAKH, A.V.; VERKHOVTSYEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHCY, A.I.; BORODULIN, A.I.; VAYNSHTEYN, O.Ya.; ZHIGULIN, V.I.; DIKSHTEYN, Ye.I.; KLIMASENKO, L.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.; ZHIDETSKIY, D.P.; MIKHAYLETS, N.S.; SLEPKANEV, P.N.; ZAVODCHIKOV, N.G.; GUDENCHUK, V.A.; NAZAROV, P.M.; SAVOS'KIN, M.Ye.; NIKOLAYEV, A.S.

Reports (brief annotations). BnL. TSNIICEM no.18/19:36-39 '57.  
(MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshiteyn).
2. Kuznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Borodulin, Klimasenka).
3. Chelyabinskiy metallurgicheskiy zavod (for Lubenets, Vaynshteyn).
4. Zavod im. Dzerzhinskogo (for Koburneyev).
5. Zavod "Zaperozhstal'" (for Turubiner, Mazov, Podgoretakiy, Marakhovskiy, Savos'kin).
6. Makeyevskiy metallurgicheskiy zavod (for Vasil'yev, S.V., Mal'kov, Zhidetskiy, Al'ferov).
7. Stal'proyekt (for Chernenko, Zhdanov, Zavodchikov).
8. VNIIT (for Belov).
9. Stalinskiy metallurgicheskiy zavod (for Telesov, Malakh).

(Continued on next card)

KOROLEV, A.I.---(continued) Card 2.

10. Nizhne-Tagil'skiy metallurgicheskii kombinat (for Medvedev, Novolodskiy, Vecher). 11. Zavod "Azovstal'" (for Bul'skiy, Slepkanov). 12. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Trubetskov). 13. Ukrainskiy institut metallov (for Smeyerov, Slakoshcheyev, Kotin). 14. Zavod "Krasnyy Oktiabr'" (for Palant). 15. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Kurochkin). 16. Zavod im. Voroshilova (for Sbiyev). 17. Chelyabinskii politekhnicheskii institut (for Morozov). 18. Giprostal' (for Garbuz). 19. Ural'skiy institut chernykh metallov (for Pastukhov). 20. Zavod im. Petrovskogo (for Zhigulin). 21. Ministerstvo chernoy metallurgii USSR (for Molodkov, Siverskiy). 22. Glavspetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev).  
(Open-hearth process)

ZAVODNOV, S.S.; SOLOMIN, G.A.; POSENKO, N.G.

Neutralization of acid waste water in intermediate p. 113.

Gidrokhim, nat. 37(154-157. '64.

(1964 1'64)

1. Gidrokhimicheskiy institut Glavnogo upravleniya gidrometereologicheskoy sluzhby pri Sovete Ministrov SSSR, Novocherkassk.



ZAVODCHIKOV, Petr Alekseyevich; KURBATOV, Valerian Vladimirovich;  
MAZOVAR, Aleksandr Pavlovich; NAZAROV, Viktor Petrovich;  
BOLOGOV, G.N., red.; BARANOVA, L.G., tekhn.red.

[Manual on dog breeding] Spravochnaia kniga po sobakovodstvu.  
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 317 p.

(MIRA 13:12)

(Dog breeding)

1. ZAVODCHIKOV-CHEERNYSHEV, V.
2. USSR (600)
4. Swine
7. Yearly plan overfulfilled ahead of time. Sots. zhiv. 14 no. 11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

SHAL'NOV, Mikhail Ivanovich; ISAYEV, B.M., kand.fiz.-matem.nauk, red.;  
ZAYODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn.red.

[Neutron tissue dose] Tkanevaia doza neitronov. Pod red. B.M.  
Isaeva. Moskva, Izd-vo glav.upr.po ispol'zovaniyu atomnoi  
energii pri Sovets Ministrov SSSR, 1960. 217 p. (MIRA 13:4)  
(RADIOBIOLOGY) (NEUTRONS--PHYSIOLOGICAL EFFECT)

LEBEDINSKIY, Andrey Vladimirovich; NAKHIL'NITSKAYA, Zinaida Nikolayevna;  
ZAVODCHIKOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Influence of ionizing radiation on the nervous system] Vlienie  
ioniziruiushchikh izlucheni na nervnuu sistemu. Moskva, Izd-vo  
Gos.kom-ta Soveta Ministrov SSSR po ispol'zovaniu atomnoi energii,  
1960. 186 p. (MIRA 13:12)

(RADIATION--PHYSIOLOGICAL EFFECT)  
(NERVOUS SYSTEM)

CHEPKUNOV, V.V., aspirant[translator]; SKOROV, D.M., doktor tekhn. nauk, prof., red.; ZAVODCHIKOVA, A.I., red.; VLASOVA, N.A., tekhn. red.

[Metallography of reactor materials]Metallovedenie reaktor-nykh materialov; obzory. Moskva, Gosatomizdat. [From "Reactor Core Materials"; a quarterly...] Book 3. [Moderator, reflector, and control device materials]Materialy zamedlitel'ia, otrazhatelia i reguliruiushchikh ustroistv. Pod red. D.M.Skorova. 1962. 113 p. Translated from the English.  
(MIRA 15:10)

1. Battelle Memorial Institute, Columbus, Ohio.  
(Nuclear reactors--Materials)

BURNAZYAN, A.I., red.; LEBEDINSKIY, A.V., red.; ZAVODCHIKOVA, A.I.,  
red.; VLASOVA, A.A., tekhn.red.

[Radiation medicine] Radiatsionnaya meditsina; posobie dlia  
vrachei i studentov. Izd.3., perer. i dop. Moskva, Gosatom-  
izdat, 1963. 371 p. (MIRA 16:12)  
(RADIOLOGY, MEDICAL)

GKRASIMOV, V.V., kand.khim.nauk, red.; ZAVODCHIKOVA, A.I., red.;  
MAZEL', Ye.I., tekhn.red.

[Corrosion of reactor materials] Korrozia reaktornykh  
materialov; sbornik statei. Moskva, Gos.izd-vo lit-ry  
v oblasti atomnoi nauki i tekhniki, 1960. 284 p.

(MIRA 14:3)

(Nuclear reactors--Materials)  
(Corrosion and anticorrosives)

GORDEYEV, I.V.; KARDASHEV, D.A.; MALYSHEV, A.V.; KRASIN, A.K., akademik,  
laureat Leninskoy premii, red.; ZAYODCHIKOVA, A.I., red.; MAZEL',  
Ye.I., tekhn.red.

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Spravochnik po iaderno-fizicheskim konstantam dlia raschatov re-  
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[Chemical protection of the body from ionizing radiation]  
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(MIRA 14:11)

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SERGEYEV, G.Ya.; TITOVA, V.V.; BORISOV, K.A.; ZAVODCHIKOVA, A.I., red.;  
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ZAVODCHIKOVA, V.G. : KONDRAT'YEV, K.Ya.

Spatial distribution of scattered and reflected radiation. Vest.  
LGU 8 no.2:107-113 P '53. (MIRA 12:7)  
(Radiation)

ACC NR: AP6025601

SOURCE CODE: UR/0413/66/000/013/0041/0041

INVENTORS: Vorbitskiy, M. V.; Solov'yov, I. N.; Zavodkova, N. G.; Somenova, Ye. A.; Logunov, S. S.

ORG: none

TITLE: Static dc-to-ac converter. Class 21, No. 183270

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 41

TOPIC TAGS: transistorized circuit, dc to ac converter, *frequency converter*

ABSTRACT: This Author Certificate presents a transistorized bridge type static dc-to-ac converter with saturable transformers in the transistor base circuits. To stabilize the output power, copper resistors are connected in the transistor base circuits (see Fig. 1). To stabilize the output frequency, a copper resistor is connected in series with the primary of the saturable transformer. To broaden the frequency range of conversion, an inductor with a series-connected diode is connected in parallel with the base-emitter junction of each transistor whose collector is connected to B-.

Card 1/2

UDC: 621.314.58

ACC NR: AP6025601

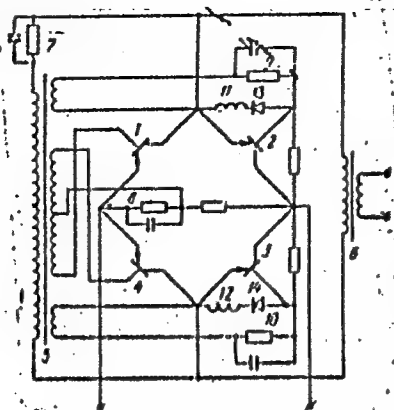


Fig. 1. 1-4 - transistors; 5 and 6 - transformers;  
7-10 - copper resistors; 11 and 12 - inductors; 13  
and 14 - diodes

Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 15Sep64

Card 2/2

ZAVODNAYA, G. Ye.

RUSSIAN BOOK EVALUATION 327/3559

Abstracts from USSR. Institute metallurgii. Research report on problems of metallurgy.

Trudovye po termochernym splavam, t. 5 (Investigations of Heat-Resistant Alloys, Vol. 5) Moscow, Izdatel' AN SSSR, 1959. 425 p. Russian ally inserted. 2,000 copies printed.

Ed. of Publishing House: V.A. Klimov; Tech. Ed.: I.P. Kuznetsov; Editorial Board: I.P. Bartin, Academician, O.V. Kuryukov, Academician, N.Y. Koryev, Corresponding Member, USSR Academy of Sciences (Resp. Ed.), I.A. Giling, I.M. Pavlov, and I.P. Salin, Candidate of Technical Sciences.

PURPOSE: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses in metallurgy.

CONTENTS: This book, consisting of a number of papers, deals with the properties of heat-resistant metals and alloys. Each of the papers is devoted to the study of the factors which affect the properties and behavior of metals. The effects of various elements such as Cr, Ni, Mo, and V on the heat-resisting properties of various alloys are studied. Deformability and variability of certain metals as related to the thermal conditions are the object of another study described. The problems of hydrogen embrittlement, diffusion and the deposition of ceramic coatings on metal surfaces by means of electroporesis are examined. One paper describes the apparatus and methods used for growing monocrystals of metals. X-ray-base metals are critically examined and evaluated. Results are given of studies of interatomic bonds and the behavior of atoms in metal. Tests of turbine and compressor blades are described. So personalities are mentioned. Abstracts accompany most of the articles.

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327/3559

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BAKULIN, Ye.A.; ZAVODNAYA, G.Ye.

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Some hydrographic observations in the phytal colonies of  
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NIKOLIC, M.; ZAVODNIK, D.

On the concrescence of two specimens; *Phallusia mamillata* (Cuv.)  
[Tunicata]. Bul so Jug 6 no.1:10-11 Mr '61. (EEAI 10:9/10)

1. Laboratory of biology JAZU, Rovinj.  
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Notes on the biology of the sprat (*Glupea sprattus* L.) from  
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1. Bioloski institut JAZU, Rovinj.



ZAVODNIK, N. S. ZAVODNIK, D.

Notes on the biology of the sprat (*Glupes sprattus* L.) from the Adriatic. Bul so Young 7 no.6:161 D '62.

1. Bioloski institut JAZU, Rovinj.

L 21292-66

ACC NR 1302017

AUTHOR: Haber, M., Zavodnik, D.

ORG: Institute for Ocean Biology, Rovinj (Institut za biologiju mora)

TITLE: Preliminary data on work with underwater lamps

SOURCE: Split, Institut za oceanografiju i ribarstvo, Acta Adriatica, v. 17, 1966, no. 1, p. 1-10, 10 refs.

DESCRIPTORS: underwater light, underwater lights, electric lamp, electric generator, electric insulation, biological research facility

ABSTRACT: The light intensity of normal and underwater lamps are theoretically examined. The results show the advantages of underwater lamps owing to their ability to reflect light and to the angle under which they can be used. The needed adaptation of the electric generator is described. With the built-in supplementary Ammeter the condition of underwater lamps in the course of lighting can be controlled. In the case of emergency the lamps can be used as a source of light for the ship.

It is shown such a bulb may be made fit for under water use. This method was tested at depths upwards of 50 meters and at a ship speed of 5 knots. Biological observations in connection with the employment of such underwater lamps are still in progress and will be reported in a paper to be published at a later date. The article has 10 figures. Author's abstract.

SUB CODE: 13.06.09 SUBM DATE: none

Card 1/1

ZAVODNIK, Ya.Ye.

Increase the production and improve the quality of baker's yeast.  
Khleb.1 kond.prom. 1 no.6:30-32 Je '57. (MLRA 10:8)  
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ZAVODNOV, S.S.

Apparatus for the recrystallization of salts in the absence of oxygen  
in the air. *Gidrokhim. mat.* 35:200-202 '63. (MIRA 16:7)

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(Salts) (Crystallization)